

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-250631

(43)Date of publication of application : 28.09.1993

(51)Int.Cl.

G11B 5/265  
G11B 5/127  
G11B 5/187  
G11B 5/23

(21)Application number : 04-049985

(71)Applicant : NEC CORP

NEC GUMMA LTD

KOZAN DENKI KOGYO KK

(22)Date of filing : 06.03.1992

(72)Inventor : HIRANO ATSUSHI

NAGASHIMA MITSUO

MACHIDA KUNIHIRO

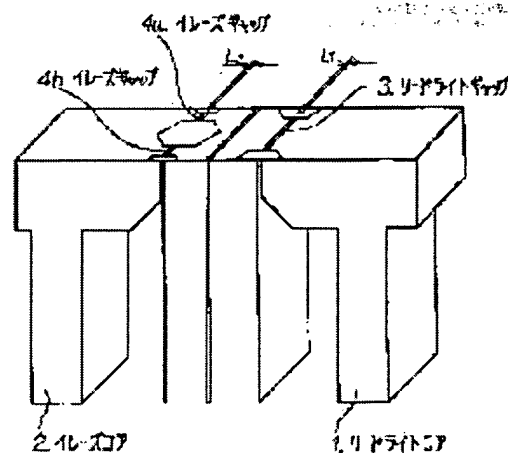
NAGASAWA RYOICHI

## (54) MAGNETIC HEAD

### (57)Abstract:

**PURPOSE:** To shorten the production lead time by setting the space length of a magnetic gap for writing and reading and the space length of a magnetic gap for tunnel erasing to a specified dimensional relation.

**CONSTITUTION:** This magnetic head is a floppy disk magnetic head for which a read-write core 1 and erase core 2 are coupled with each other. In respective cores 1 and 2, a read-write gap 3 with a space length  $L_1$  and erase gaps 4a, 4b with space length  $L_2$  are formed. Both of lengths  $L_1$  and  $L_2$  are made equal, but while including the error in manufacture the length is set, within the range  $1.2L_1 \geq L_2 \geq 0.8L_1$ . In such a manner,  $L_1$  and  $L_2$  are set to be the same in the production process of the read-write core 1 and the erase core 2, since a sputtering device in the sputtering process of the gap material can be operated simultaneously the production lead time is shortened compared with a conventional method to reduce the production cost.



---

**LEGAL STATUS**

[Date of request for examination] 28.03.1997

[Date of sending the examiner's decision of rejection] 09.06.1999

[Kind of final disposal of application other than the  
examiner's decision of rejection or application  
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of  
rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office